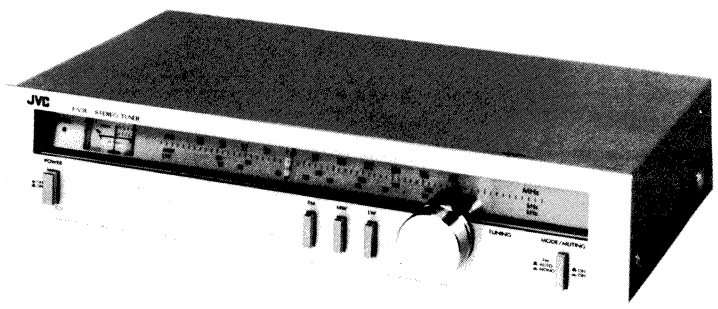
JVC

SERVICE MANUAL

MODEL T-V3L

STEREO TUNER



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WARNING! When replacing the parts marked with ⚠ , be sure to use the designated parts to ensure safety.

1. Specifications

FM Tuner Section

Tuning Range	: 87.6 MHz – 108 MHz
Usable Sensitivity (IHF)	: 12.8 dBf 1.2 μV/75Ω
50 dB quieting sensitivity	
Mono	: 17.2 dBf
Stereo	: 38.3 dBf
Distortion	
Mono	: 0.25% (1 kHz)
Stereo	: 0.45% (1 kHz)
Signal to Noise Ratio	
Mono	: 70 dB
Stereo	: 65 dB
Selectivity	: 55 dB, ±400 kHz
Capture Ratio	: 1.5 dB
IF Rejection	: 75 dB at 98 MHz
Image Rejection	: 55 dB at 98 MHz
Stereo Separation	: 100 Hz – 30 dB 1 kHz – 40 dB 10 kHz – 30 dB
De-emphasis	: 50μsec.
Output Level (400 Hz, 100 % Mod.)	: 600 mV/3.3kΩ

MW Tuner Section

Tuning Range	: 525 kHz – 1,605 kHz
Usable Sensitivity	: 300 μV/m, 50μV (External Antenna)
Signal to Noise Ratio	: 50 dB
Distortion	: 0.5%
Selectivity	: 30 dB

LW Tuner Section

Tuning Range	: 150kHz – 350kHz
Usable Sensitivity	: 500μV/m, 80μV (External Antenna)
Signal to Noise Ratio	: 50 dB
Distortion	: 0.5%
Selectivity	: 30 dB
Dimensions	: 3-1/2"(H) x 16-9/16"(W) x 12-4/9" (D) (89mm x 420mm x 316mm)
Weight	: 7.5 lbs. 3.4 kg

Specifications in FM Tuner Section are based upon IHF Standard.

Design and specifications subject to change without notice.

2. Removal of Top Cover and Bottom Cover

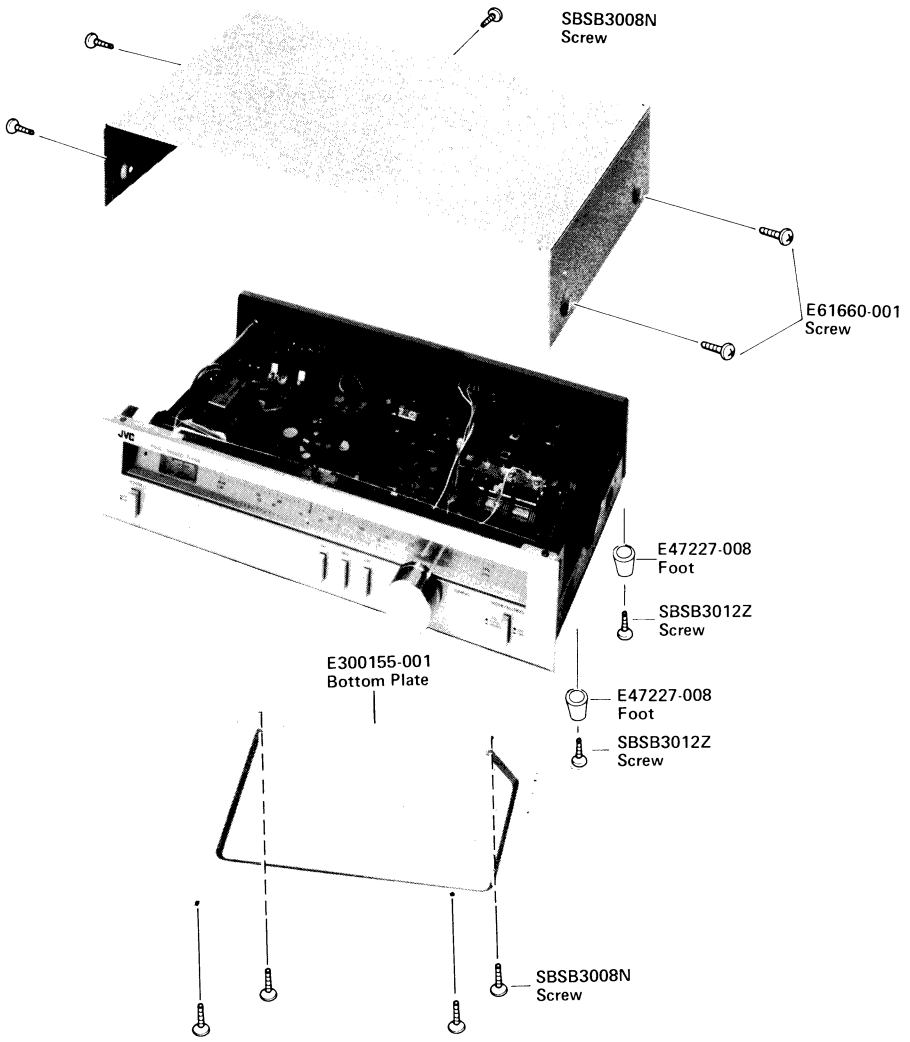


Fig. 1

3. Main Parts Location

Top View

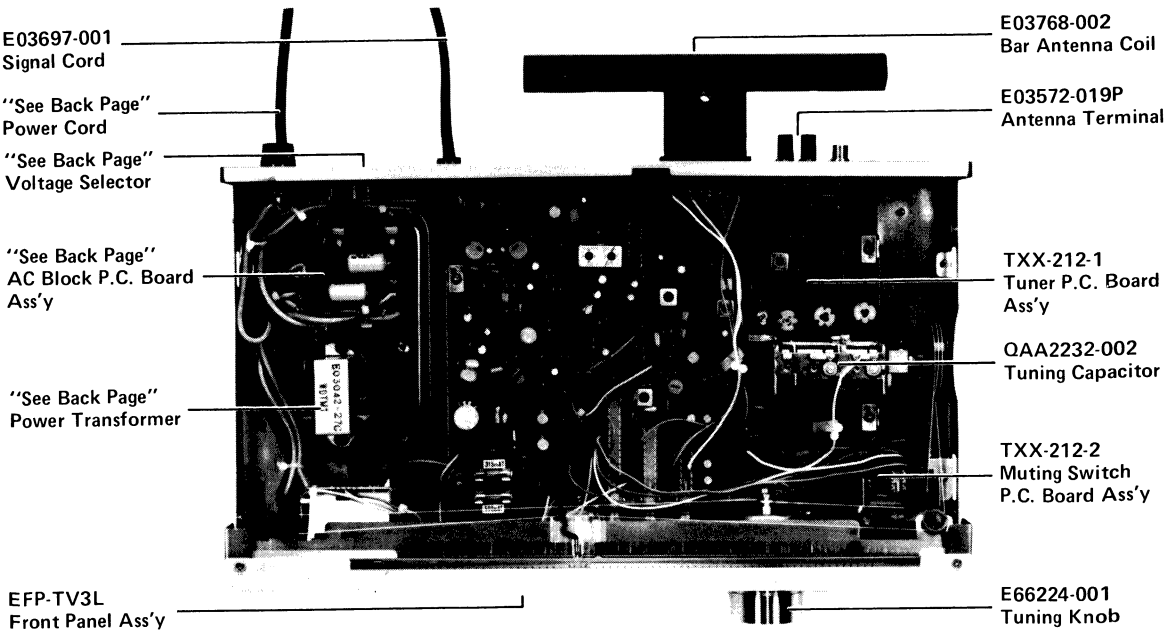


Fig. 2

Front View

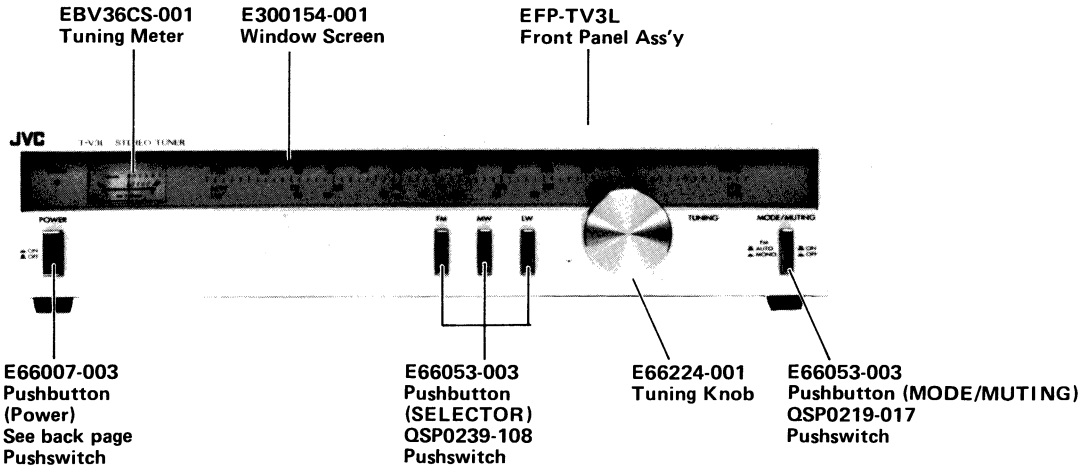


Fig. 3

4. Dial Stringing Procedure

Note: No dial stringing is necessary in normal condition. If it becomes necessary, perform it as follows.
Before removing Tuner P.C. Board, wrap the dial drum together with dial cord by using a scotch tape and remove the dial drum carefully and then fix it on the side of chassis until replacement of this P.C. Board is completed.

Take the following 7 steps (from step ① to ⑦).

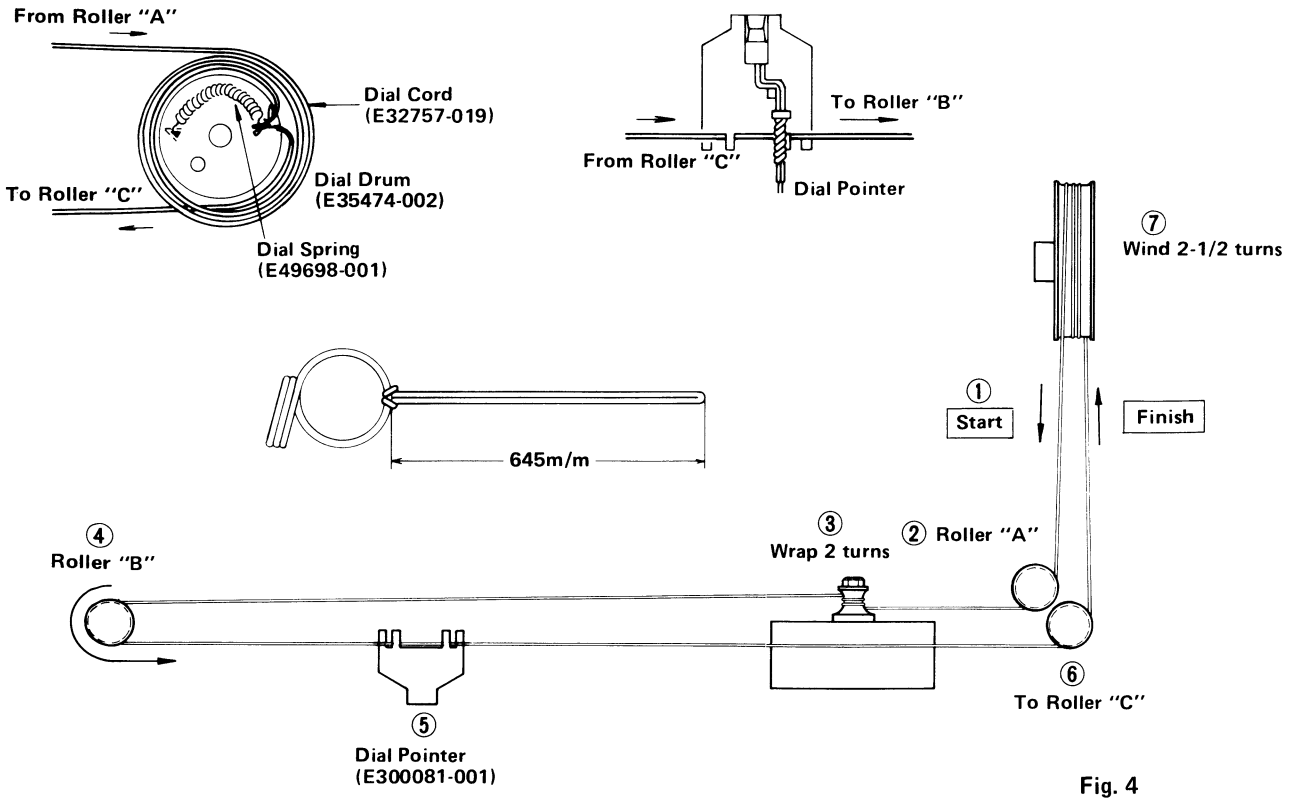


Fig. 4

5. Exploded View and Part Numbers

5-(1) Front Panel and Chassis Base

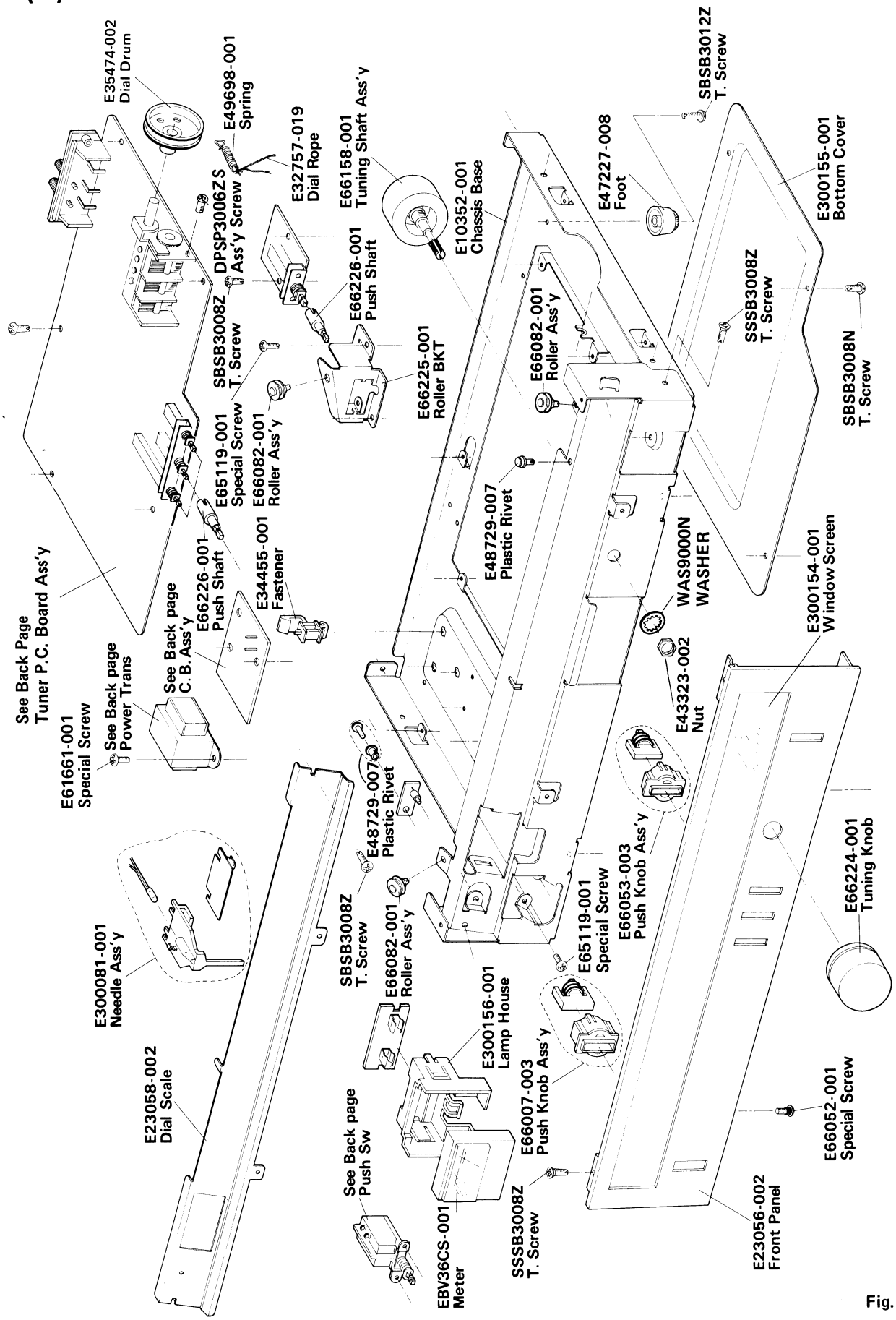


Fig. 5

5-(2) Rear Panel

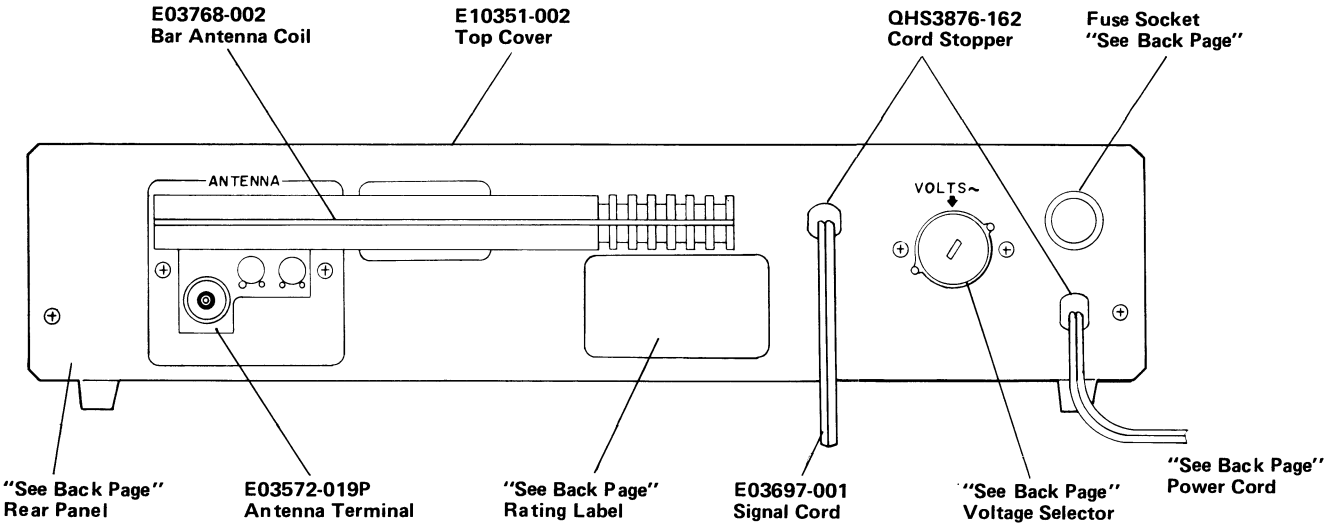


Fig. 6

6. Tuner Alignment Procedures

6-(1) FM Section

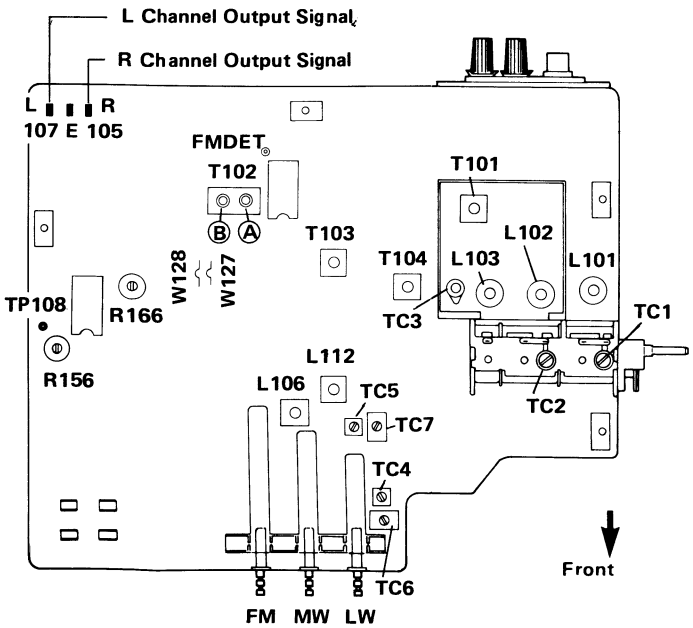


Fig. 7

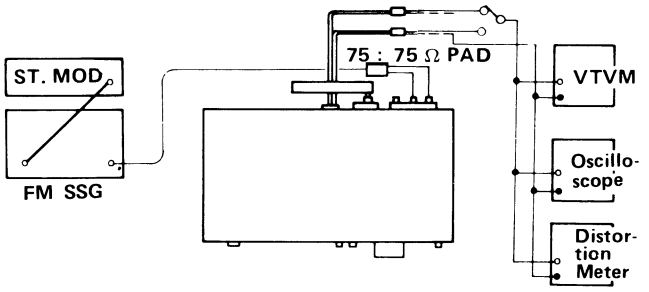


Fig. 8

Descriminator, Center Meter, Distortion and Signal Gain

Note: Keep in the muting pushbutton off during this procedure.

1. Connect an RF generator, 1kHz modulation and 75kHz deviation, to the antenna terminals on the rear panel through a dummy antenna.
2. Connect an oscilloscope distortion meter and AC VTVM to the TAB No. 107 (Left) or 105 (Right) located on TXX-212.
3. Connect a DC VTVM to TP (Test Point) W127 (Positive) and TP (Test Point) W128.
4. Tune to frequency where there is no broadcasting.
5. Adjust the core shown arrow Ⓐ of T102 so that the DC VTVM indicates "0" (zero).
6. Set the Generator to 98MHz.
7. Set the dial pointer to 98MHz.
8. Adjust the core shown arrow Ⓑ of T102 so that the distortion is minimized at a value less than 0.4%.

Tracking and Sensitivity

Precaution: No adjustment is required. The tracking and sensitivity have been adjusted properly and completely at the factory. If any special reason occasioned, take the following procedures very carefully.

Low Frequency

1. Connect an RF Generator to the antenna terminals on the rear panel through a dummy antenna.
2. Set the RF Generator to 90 MHz, a modulation of 1 kHz and deviation of 75 kHz to provide an input of 2 μV.
3. Connect a VTVM and oscilloscope to the TAB No. 107 (Left) or 105 (Right).
4. Set the dial pointer to 90 MHz.
5. Adjust the three coils L103, L102 and L101 in the tuning gang to maximum the output.

High Frequency

6. Set the RF Generator to 106 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of 2 μV.
7. Set the dial pointer to 106 MHz.
8. Adjust the FM Trimmers TC3, TC2 and TC1 in the tuning gang to maximize the output.
9. Repeat these high and low frequencies adjustment alternately until maximum sensitivity is obtained.

Multiplex and Stereo Separation

Multiplex

Note: Switch the modeswitch to FM Auto during this procedure.

1. Set the stereo signal generator as follows: 400 Hz modulation frequency, 7.5 kHz deviation pilot, 67.5 kHz main and sub carriers. Connect its output to an RF generator.
2. Connect the RF Generator to the antenna terminal through a dummy antenna.
3. Connect a VTVM, an Oscilloscope and a Distortion Meter to the TAB No. 107 (Left) or 105 (Right).
4. Set the RF Generator to the 98 MHz and an output of 1 mV.
5. Set the dial pointer to 98 MHz.
6. Connect the Frequency Counter to the TP (Test Point) 108.
7. Switch off the pilot signal of Stereo Modulator.
8. Adjust R156 so that the Frequency Counter indicates 19 kHz (0 ~ -50 Hz).

Stereo Separation

9. Switch the selector of the Stereo Modulator to Left channel modulation.
10. Adjust R166 so that the output of the Right channel is minimized.
11. Switch the selector of the modulator to Right channel modulation.
12. Adjust R166 so that the Left channel is minimized.
13. Set R166 to average, if the separation of Right and Left are different.

6-(2) MW & LW Section

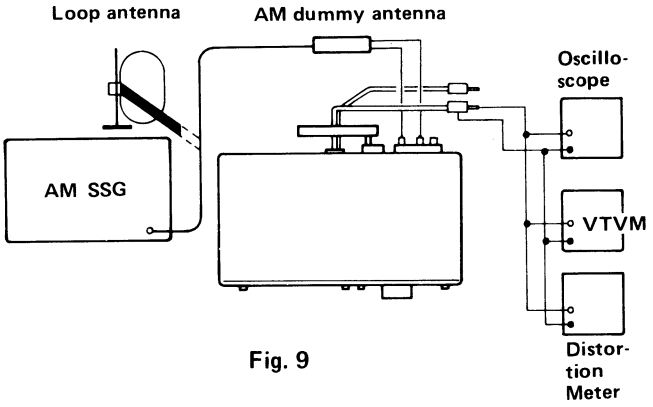


Fig. 9

MW (LW) Section

Tracking and Sensitivity

Low Frequency

1. Connect the RF Generator to the antenna terminal on the rear panel, set this to 600 kHz (160kHz) with 30 % modulation at 400 Hz.
2. Connect an AC VTVM and an Oscilloscope to TAB No. 107 or 105.
3. Set the dial pointer to the 600 kHz (160kHz).
4. Adjust OSC Coil L106 (L112) and the ferrite bar antenna adjusting the coil to maximize the output signal.

High Frequency

5. Set the RF Generator to 1400 kHz (350kHz) with 30 % modulation at 400 Hz.
6. Set the dial pointer to 1400 kHz (350kHz).
7. Adjust the trimmers TC5 (TC7) and TC4 (TC6) in the tuning gang so that the output signal is maximized.
8. Repeat these high and low frequencies adjustment procedures alternately until maximum sensitivity is obtained.

7. Printed Circuit Board Ass'y and Parts List

7-(1) TXX-212 Tuner P.C.Board Ass'y

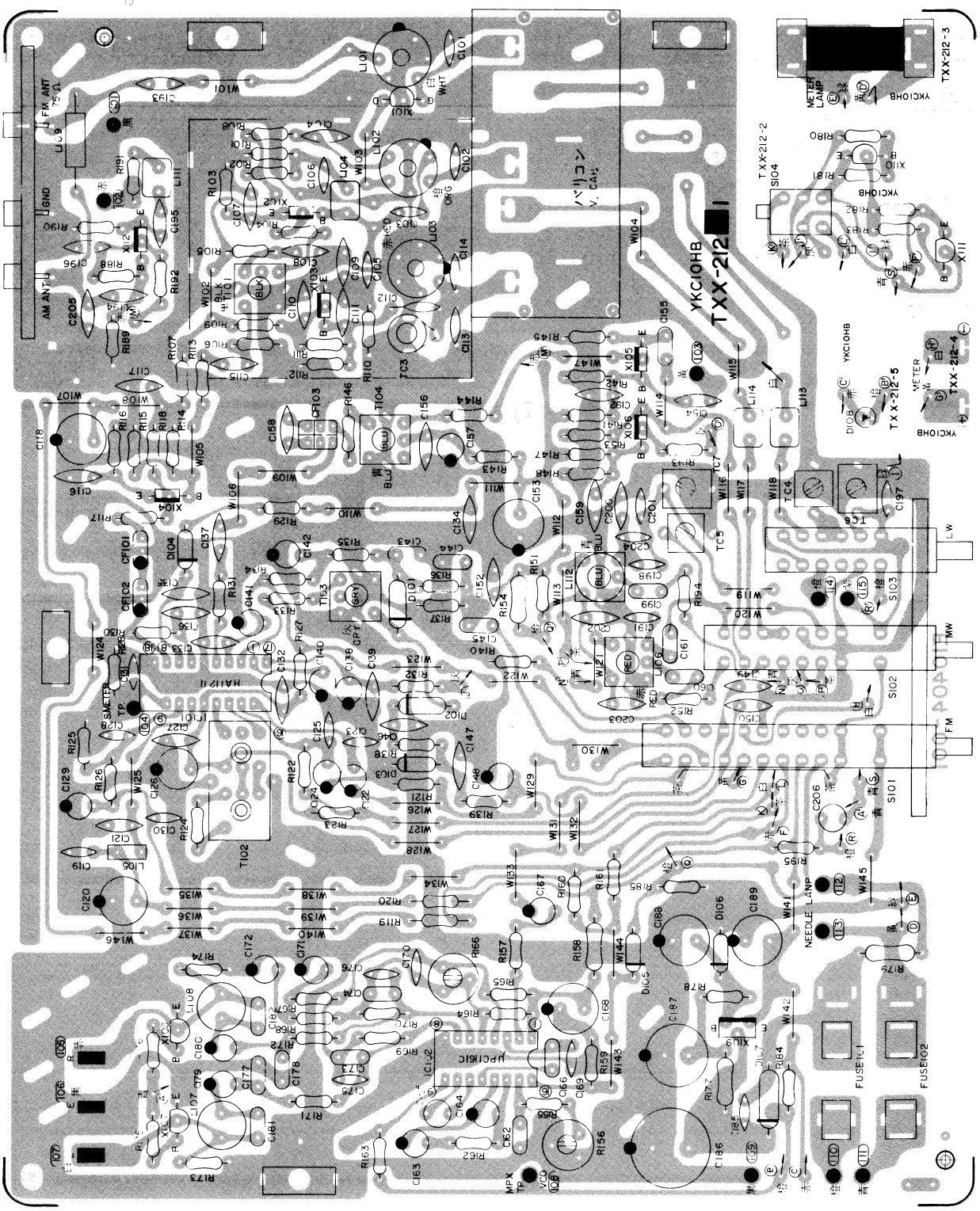


Fig. 10

Note: The specific symbols ("赤""黒""白"... etc.) on a surface of above P.C. Board are actually unrelated to the repair service and are significant denotment in order to process the proper assembly of P.C. Board at the factory.

Transistors

Item No.	Part Number	Rating		Description	
		Pc	fT		Maker
X101	2SK61(GR)			FET	Toshiba
X102	2SC535(B)	0.1 W	700 MHz	Silicon	Hitachi
X103	2SC1342(C)	"	250 MHz	"	"
X104	2SC461(C)	0.2W	230MHz	"	"
X105	2SC535(C)	0.1W	940MHz	"	"
X106	2SC461(C)	0.2W	230MHz	"	"
X107	2SD655(E,F)	0.3 W	120 MHz	"	"
X108	2SD655(E,F)	0.5 W	250 MHz	"	"
X109	2SD325(D,E)	0.5 W	250 MHz	"	"
X110	2SC458(C)	0.2W	230MHz	Silicon	Hitachi
X111	2SA872AV(E)				
X112	2SC461(C)	0.2W	230MHz	Silicon	Hitachi

Integrated Circuits

Item No.	Part Number	Rating	Description	
		Pc		Maker
IC101	HA11211	0.73W	I.C	Hitachi
IC102	MPC1161C	0.4 W	"	NEC

Diodes

Item No.	Part Number	Rating	Description	
				Maker
D101	1S188FM			
D102	1S188FM			
D103	1S2076-31			Hitachi
D104	1S2076-31			"
D105	1S2076-31			"
D106	XZ-132		Silicon	JRC
D107	ERB12-02RKL1		"	Kyodo Denki
D108	TLR206		LED	Toshiba

Coils & Transformers

Item No.	Part Number	Rating	Description
L101	E03477-031		RF coil
L102	E03477-035		"
L103	E03477-034		"
L104	E03522-1R5KY		"
L106	E03079-13M		AM OSC Coil
L107	Y00118-103		"
L108	Y00118-103		"
T101	E03078-39		FM IF transformer
T102	E03815-001		FM Det. transformer
T103	Y00117-001		AM Det. transformer
T104	E03613-009		AM IF transformer
L109	E03695-001		Choke Coil
L113	E03522-2R2KY		"
L114	"		"
L111	E03522-101KY		"
L112	E03079-38		LW OSC Coil

Capacitors

Item No.	Part Number	Rating		Description
C193	QCS31HJ-101Z	100pF	50V	Ceramic
C194	QCF21HP-223	0.022μF	"	"
C195	QCF21HP-473	0.047μF	"	"
C196	QCF21HP-473	"	"	"
C197	QCS31HJ-180Z	18pF	"	"
C198	QCT25CH-680Z	68pF	"	"
C199	QFM31HK-103	0.01μF	"	Mylar
C200	QCT26UJ-270	27pF	"	Ceramic
C201	QCT25CH-220Z	22pF	"	"
C202	QCF31HP-223Z	0.022μF	"	"
C203	QCF31HP-223Z	0.022μF	"	"
C204	QCT26CH-680	68pF	"	"
C205	QCS31HJ-560Z	56pF	"	"
C206	QEZ0046-224	0.22μF	"	Electrolytic

Capacitors

Item No.	Part Number	Rating		Description
C101	QCS31HJ-180Z	18pF	50V	Ceramic
C102	QCS31HJ-180Z	18pF	"	"
C103	QCS31HJ-4ROZ	4pF	"	"
C104	QCF31HP-223Z	0.022μF	"	"
C105	QCS31HJ-2ROZ	2pF	"	"
C106	QCS31HJ-151Z	150pF	"	"
C107	QCF31HP-103Z	0.01μF	"	"
C108	QCF31HP-223Z	0.022μF	"	"
C109	QCT25CH-100Z	10pF		"
C110	QCF31HP-103Z	0.01μF	50V	"
C111	QCT25CH-220Z	22pF		"
C112	QCT05CH-7RO	7pF		"
C113	QCT05PH-120	12pF		"
C114	QCT05RH-120	"		"
C115	QCF31HP-103Z	0.01μF	50V	"
C116	QCF31HP-223Z	0.022μF	"	"
C117	QCF31HP-223Z	"	"	"
C118	QET51CR-107	100μF	16V	Electrolytic
C119	QCF21HP-473	0.047μF	50V	Ceramic
C120	QET61CR-107Z	100μF	16V	Electrolytic
C121	QCF21HP-473	0.047μF	50V	Ceramic
C122	QET61HR-475Z	4.7μF	"	Electrolytic
C123	QCS21HJ-331	330pF	"	Ceramic
C124	QEB51HM-334	0.33μF	"	Low leak current Electrolytic
C125	QCF21HP-223	0.022μF	"	Ceramic
C126	QET51CR-476	47μF	16V	Electrolytic
C127	QCF31HP-223Z	0.022μF	50V	Ceramic
C128	QCF21HP-473	0.047μF	"	"
C129	QET61HR-105Z	1μF	"	Electrolytic
C130	QCF21HP-473	0.047μF	"	Ceramic
C131	QCF21HP-473	"	"	"
C132	QCF31HP-223Z	0.022μF	"	"
C133	QCF31HP-223Z	"	"	"
C134	QCF31HP-223Z	"	"	"
C135	QCF21HP-473	0.047μF	"	"
C136	QCF21HP-473	"	"	"
C137	QCF31HP-103Z	0.01μF	"	"
C138	QET61HR-475Z	4.7μF	"	Electrolytic
C139	QCF21HP-473	0.047μF	"	Ceramic
C140	QET51HR-475	4.7μF	"	Electrolytic
C141	QET51HR-105	1μF	"	"
C142	QEB51EM-335	3.3μF	25V	Low leak current electrolytic
C143	QFM1HK-103Z	0.01μF	50V	Mylar
C144	QFM31HK-103	"	"	"
C145	QFM31HK-563Z	0.056μF	"	"
C146	QCF31HP-223Z	0.022μF	"	Ceramic
C147	QCF31HP-223Z	"	"	"
C148	QET51AR-476	47μF	10V	Electrolytic
C149	QCF21HP-473	0.047μF	50V	Ceramic
C150	QCF21HP-473	"	"	"
C152	QCF31HP-223Z	0.022μF	"	"
C153	QET51CR-227	220μF	16V	Electrolytic
C154	QCF31HP-223Z	0.022μF	50V	Ceramic
C155	QFM31HK-103Z	0.01μF	"	Mylar
C156	QCF31HP-223Z	0.022μF	"	Ceramic
C157	QET51ER-106	10μF	25V	Electrolytic
C158	QCS31HJ-470Z	47pF	50V	Ceramic
C159	QFM31HK-223Z	0.022μF	"	Mylar
C160	QFM31HK-103Z	0.01μF	"	"
C161	QFP31HJ-331	330pF	"	"
C162	QFP31HJ-471	470pF	"	
C163	QEB51EM-335	3.3μF	25V	Low leak current electrolytic
C164	QEB51HM-105	1μF	50V	"
C165	QEZ0046-224	0.22μF		Electrolytic
C166	QFM31HK-473	0.047μF	50V	Mylar
C167	QET61HR-475Z	4.7μF	"	Electrolytic
C168	QET51CR-227	220μF	16V	"
C169	QCS31HJ-471Z	470pF	50V	Ceramic
C170	QCS31HJ-101Z	100pF	"	"
C171	QET61ER-106Z	10μF	25V	Electrolytic
C172	QET61ER-106Z	"	"	"

Capacitors

Item No.	Part Number	Rating		Description
C173	QFM31HK-102Z	1000pF	50V	Mylar
C174	QFM31HK-102Z	"	"	"
C177	QFM31HK-682	6800pF	"	Mylar
C178	QFM31HK-682Z	"	"	"
C179	QET61HR-105Z	1μF	"	Electrolytic
C180	QET51HR-105	"	"	"
C181	QFM31HK-182Z	1800pF	"	Mylar
C182	QFM31HK-182Z	"	"	"
C185	QCF21HP-103	0.01μF	"	Ceramic
C186	QET51VR-108	1000μF	35V	Electrolytic
C187	QET51ER-477	470μF	25V	"
C188	QET51CR-107	100μF	16V	"
C189	QET61CR-107Z	"	"	"
C191	QCS31HJ-100Z	10pF	50V	Ceramic
C192	QCS31HJ-270Z	27pF	"	"

Resistors

Item No.	Part Number	Rating		Description
R101	QRD141J-472SY	4.7kΩ	1/4W	Carbon
R102	QRD141J-223SY	22kΩ	"	"
R103	QRD141J-102SY	1kΩ	"	"
R104	QRD141J-101SY	100Ω	"	"
R105	QRD141J-561SY	560Ω	"	"
R106	QRD141J-181SY	180Ω	"	"
R107	QRD149J-220S	22Ω	"	"
R108	QRD141J-391SY	390Ω	"	"
R109	QRD141J-222SY	2.2kΩ	"	"
R110	QRD141J-272SY	2.7kΩ	"	"
R111	QRD141J-103SY	10kΩ	"	"
R112	QRD141J-682SY	6.8kΩ	"	"
R113	QRD141J-270SY	27Ω	"	"
R114	QRD141J-153SY	15kΩ	"	"
R115	QRD141J-472SY	4.7kΩ	"	"
R116	QRD141J-102SY	1kΩ	"	"
R117	QRD141J-271SY	270Ω	"	"
R118	QRD141J-102SY	1kΩ	"	"
R119	QRD129J-470	47Ω	1/2W	"
R120	QRD129J-270	27Ω	"	"
R121	QRD141J-103SY	10kΩ	1/4W	"
R122	QRD141J-103SY	"	"	"
R123	QRD141J-331SY	330Ω	"	"
R124	QRD141J-272SY	2.7kΩ	"	"
R125	QRD141J-473SY	47kΩ	"	"
R126	QRD141J-222SY	2.2kΩ	"	"
R127	QRD141J-473SY	47kΩ	"	"
R128	QRD141J-333SY	33kΩ	"	"
R129	QRD141J-154SY	150kΩ	"	"
R130	QRD141J-331SY	330Ω	"	"
R131	QRD141J-470SY	47Ω	"	"
R132	QRD141J-123SY	12kΩ	"	"
R133	QRD141J-101SY	100Ω	"	"
R134	QRD141J-363SY	36kΩ	"	"
R135	QRD141J-333SY	33kΩ	"	"
R136	QRD141J-102SY	1kΩ	"	"
R137	QRD141J-562SY	5.6kΩ	"	"
R138	QRD141J-222SY	2.2kΩ	"	"
R139	QRD141J-102SY	1kΩ	"	"
R140	QRD141J-683SY	68kΩ	"	"
R141	QRD141J-124SY	120kΩ	"	"
R142	QRD141J-103SY	10kΩ	"	"
R143	QRD149J-101S	100Ω	"	"
R144	QRD141J-101SY	"	"	"
R145	QRD141J-222SY	2.2kΩ	"	"
R146	QRD141J-152SY	1.5kΩ	"	"
R147	QRD141J-563SY	56kΩ	"	"
R148	QRD141J-223SY	22kΩ	"	"

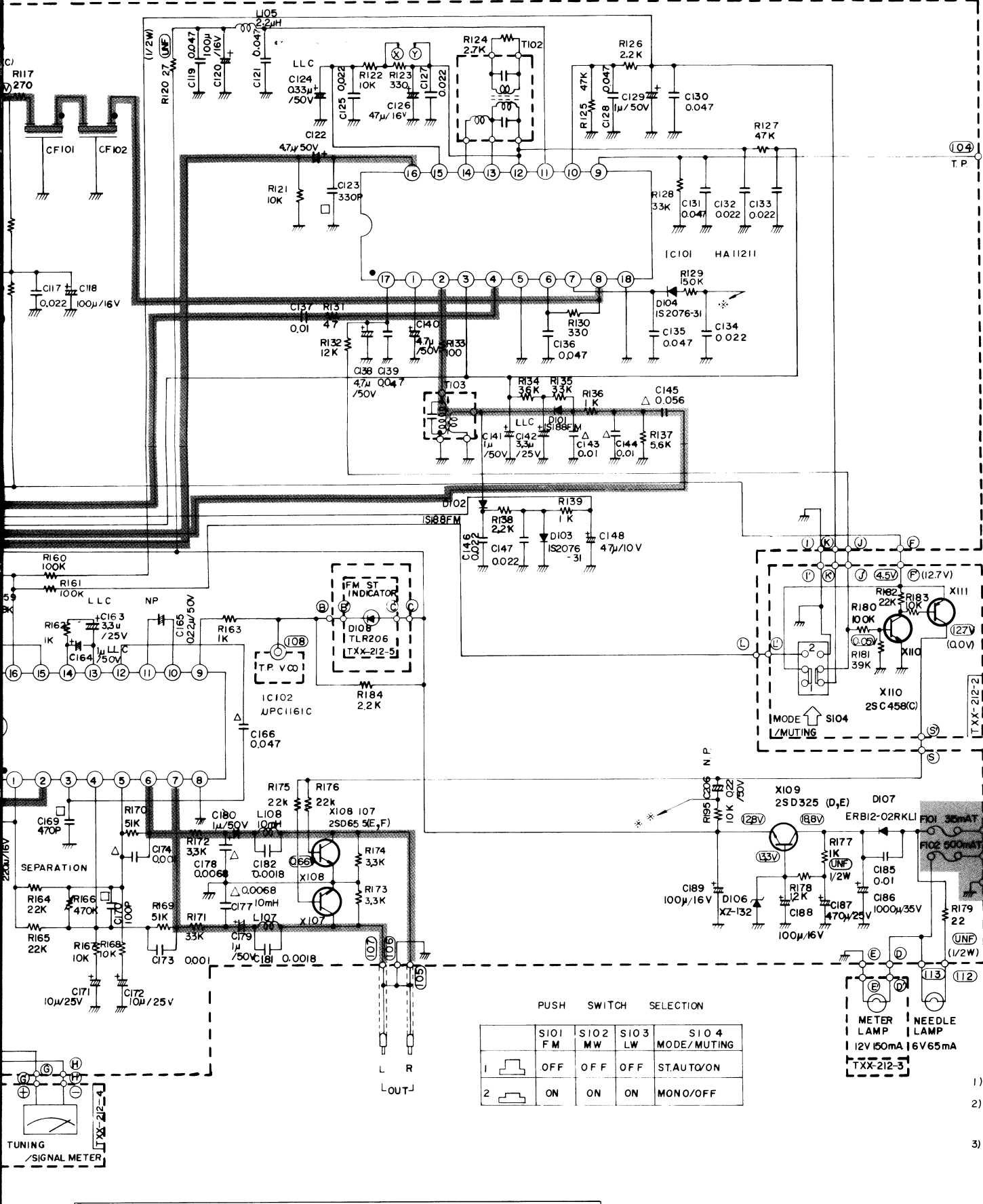
Resistors

Item No.	Part Number	Rating		Description
R151	QRD141J-101SY	100Ω	1/4W	Carbon
R152	QRD141J-470SY	47Ω	"	"
R153	QRD141J-102SY	1kΩ	"	"
R154	QRD129J-121	120Ω	1/2W	"
R155	QRD141J-163SY	16kΩ	1/4W	"
R156	QVP4AOB-472	4.7kΩ		
R157	QRD141J-473SY	47kΩ	1/4W	Carbon
R158	QRD129J-330	33Ω	1/2W	"
R159	QRD141J-683SY	68kΩ	1/4W	"
R160	QRD141J-104SY	100kΩ	"	"
R161	QRD141J-104SY	100kΩ	1/4W	Carbon
R162	QRD141J-102SY	1kΩ	"	"
R163	QRD141J-102SY	"	"	"
R164	QRD141J-223SY	22kΩ	"	"
R165	QRD141J-223SY	"	"	"
R166	QVP4AOB-474	470kΩ		
R167	QRD141J-103SY	10kΩ	1/4W	Carbon
R168	QRD141J-103SY	"	"	"
R169	QRD141J-513SY	51kΩ	"	"
R170	QRD141J-513SY	"	"	"
R171	QRD141J-332SY	3.3kΩ	"	"
R172	QRD141J-332SY	"	"	"
R173	QRD141J-332SY	"	"	"
R174	QRD141J-332SY	"	"	"
R175	QRD141J-223SY	22kΩ	"	"
R176	QRD141J-223SY	"	"	"
R177	QRD129J-102	1kΩ	1/2W	"
R178	QRD141J-122SY	1.2kΩ	1/4W	"
R179	QRZ0044-220	22Ω	1/4W	Fusible
R180	QRD141J-104SY	100kΩ	1/4W	Carbon
R181	QRD141J-393SY	39kΩ	"	"
R182	QRD141J-223SY	22kΩ	"	"
R183	QRD141J-103SY	10kΩ	"	"
R184	QRD141J-222SY	2.2kΩ	"	"
R185	QRD141J-182SY	1.8kΩ	"	"
R188	QRD141J-104SY	100kΩ	"	"
R189	QRD141J-153SY	15kΩ	"	"
R190	QRD141J-222SY	2.2kΩ	"	"
R191	QRD141J-182SY	1.8kΩ	"	"
R192	QRD149J-101S	100Ω	"	"
R193	QRD141J-330SY	33Ω	"	"
R194	QRD141J-181SY	180Ω	"	"
R195	QRD141J-103SY	10kΩ	"	"

Others

Item No.	Part Number	Rating	Description
	E03572-019P		Antenna Terminal
	E10404-001		Circuit Board
	E300203-001		Shield Cover
	E45524-002		Fuse Clip (For lump)
	E48965-002		Fuse Clip
	E60700-001		Earth Plate
	QAA2232-002		Variable Capacitor
	QSP0239-108		Push Switch
TC3	QAT3001-014		Trimmer Capacitor
	See back page		Fuse Label
CF101	E03357-009		Ceramic Filter
CF102	E03357-009		"
CF103	E03613-016		"
SW103	QSP0219-017		Push Switch
TC4	QAT2001-001		Trimmer Capacitor
TC5	QAT2001-001		"
TC6	QAT2001-005		"
TC7	QAT2001-005		"

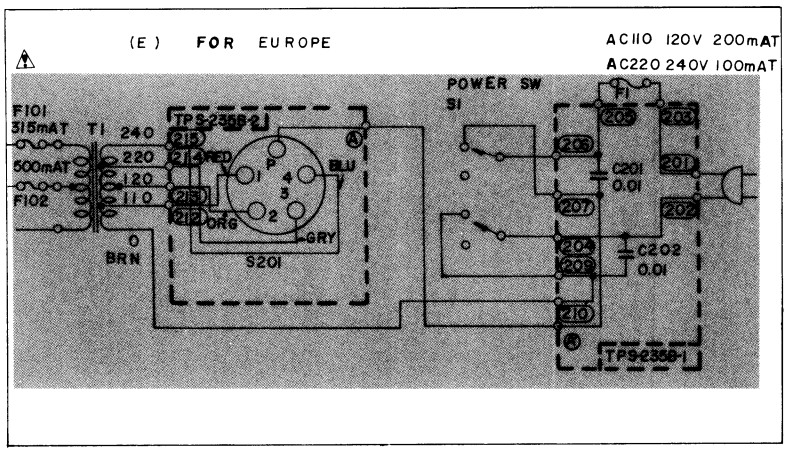
9. T-V3L Schematic Diagram



PUSH SWITCH SELECTION

	S101 FM	S102 MW	S103 LW	S104 MODE/MUTING
1	OFF	OFF	OFF	ST.AUTO/ON
2	ON	ON	ON	MONO/OFF

1) FOR ALL VOLTAGE MEASUREMENTS LINE VOLTAGE=240V AV.
2) ( ) INDICATES DC VOLTAGE MEASURED WITH DC VTVM TO CHASSIS WITH NO SIGNAL IN PUT (MUTING ON)
3) ( ) INDICATES DC VOLTAGE WITH 1mV RF INPUT



	IC101 FM NO SIG	IC101 FM ST.SIG	IC101 MW NO SIG	IC101 MW SIG	IC101 LW NO SIG	IC101 LW SIG	IC102 NO SIG	IC102 ST SIG
1	3.7	3.7	2.7	3.7	2.9	3.7	12.1	12.1
2	0.08	0	0.06	0.08	0.07	0.07	2.3	2.3
3	2.4	2.4	3.4	3.1	3.3	3.2	5.5	5.5
4	0.7	0.7	0.7	0.7	0.7	0.7	10.0	9.9
5	0	0	0	0	0.5	0.6	10.0	9.9
6	2.0	2.0	2.6	2.7	2.6	2.7	4.9	4.8
7	2.0	2.0	3.2	3.3	3.2	3.3	4.8	4.8
8	2.0	2.0	2.6	2.7	2.6	2.7	0	0
9	0.2	4.7	0	0	0.02	0	12.6	0.7
10	4.9	0	5.4	5.3	5.4	5.3	2.3	2.3
11	11.9	11.7	12.0	11.9	11.9	11.9	2.3	2.3
12	5.7	5.7	5.7	5.7	5.7	5.7	2.3	2.3
13	5.7	5.7	5.7	5.7	5.7	5.7	2.3	2.3
14	5.7	5.7	5.7	5.7	5.7	5.7	2.3	2.3
15	5.6	5.3	6.4	6.4	6.4	6.4	3.4	3.4
16	5.7	5.5	6.5	5.7	6.5	5.7	1.6	0.5
17	1.8	0	1.9	1.9	1.9	1.9		
18	0	0	0	0	0	0		

Notes:

1. Parts in red indicate transistors or ICs.
2. ▒▒ indicates signal path.
3. —— indicates positive B power supply.
4. When replacing the parts in the darkened area ▒▒ and those marked with ⚠ be sure to use the designated parts to ensure safety.
5. This is the standard circuit diagram.
   The design and contents are subject to change without notice.

7-(2) TPS-235B : for European Countries AC Block P.C.Board Ass'y

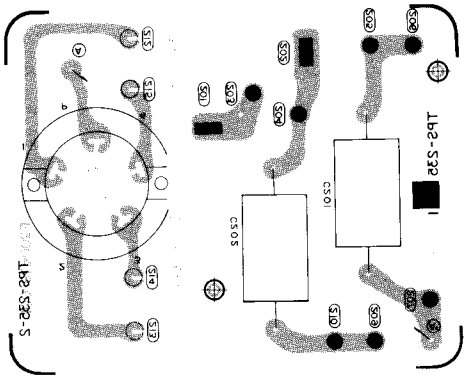


Fig. 11

Item No.	Part Number	Rating	Decription
	QSR0074-001		Voltage Selector
C201, 202	QFZ9007-103	0.01μF	Film Capacitor
	E65508-001		Tab
	E43727-001		"
	E43727-002		"
	E66342-001		Vol.Select. Holder
	E300438-001		Circuit Board

7-(3) TPS-247 BBS : for U.K. AC Block P.C.Board Ass'y

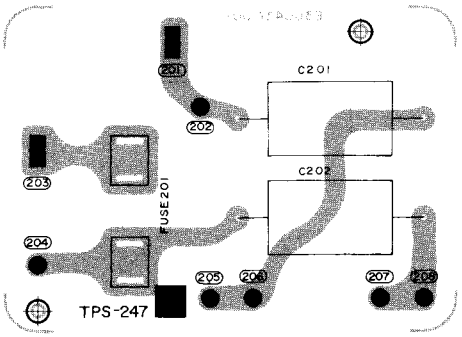


Fig. 12

Item No.	Part Number	Rating	Decription
C201, 202	QFZ9007-103	0.01μF(AC450V)	Film Capacitor
	E48965-002		Fuse Clip
	E61381-001		Fuse Label
	E65508-001		Tab
	E43727-002		"
	E300437-001BS		Circuit Board

8. Packing Materials and Part Numbers

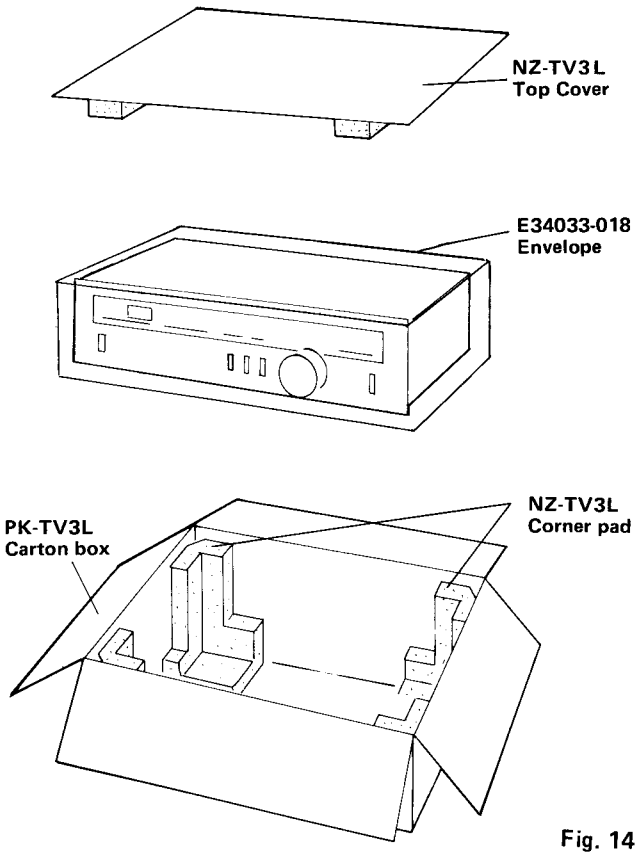


Fig. 14

10. Accessories List

Part Number	Description	Q'ty
E30580-768A	Instruction Book	1
See Below	Warranty Card	1
E41202-2	Envelope For Instruction Book and Warranty Card	1

11. Parts List with Specified Numbers for Designated Areas

Page	Description	For U.K.	For European Countries
2, 4	Power Transformer	E03042-027EBS	E03042-27C
2, 4, 10	AC Block P.C. Board Ass'y	TPS-247BBS	TPS-235B
3, 4	Push Switch (Power Switch)	QSP2110-004BS	QSP2110-004
5	Power Cord	QMP9017-008BS	QMP3900-200
2, 5	Fuse (Primary) Fuse (Secondary) Fuse (Secondary)	QMF51A2-R10LBS QMF51A2-R315LBS QMF51A2-R50LBS	QMF51A2-R10L QMF51A2-R315L QMF51A2-R50L
5	Fuse Socket	–	QMG0301-003
5	Rating Label	E47330-452BS	E47330-451
Back Page	Warranty Card	BT20013B	–
5	Rear Panel	E23059-005	E23059-006
2, 5	Voltage Selector	–	QSR0074-001
9	Fuse Label (Secondary) " (")	E61381-004 E61381-007	E61381-004 E61381-007
14 (Near the Primary Fuse)	Fuse Label (Primary)	E61381-001	–
5 (Near the Fuse Socket)	Fuse Label (Primary)	–	E65406-015

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